

CLAIMS

1. A dust extraction shroud for a power tool having a working member adapted to penetrate a surface of a workpiece, the shroud comprising:

a body portion defining a first inlet adapted to engage the surface of the workpiece and to surround a location at which said working member penetrates the surface;

a first outlet adapted to be connected to a source of suction;

a second inlet for enabling air to enter said body portion and travel to said first outlet;

a third inlet for allowing said working member to pass through said body portion and said first inlet; and

a first sealing means arranged in said third inlet for surrounding said working member and resisting the flow of air through said third inlet;

wherein said body portion includes a protruding portion defining said second inlet between said protruding portion and said body portion adjacent thereto, and on a side of said protruding portion remote from said first inlet.

[0039] 2 and 3, the second inlet is arranged on the opposite side of the working member in use from said first outlet.

3. A shroud according to claim 1, further comprising second sealing means arranged around said first inlet.

4. A shroud according to claim 1, wherein said first sealing means comprises a brush for surrounding said working member.

5. A shroud according to claim 1, wherein said first outlet comprises a respective outlet portion having substantially uniform transverse internal cross section.

6. A dust extraction apparatus for a power tool having a working member adapted to penetrate a surface of a workpiece, the apparatus comprising:-

a housing;

a suction means provided in the housing; and

a dust extraction shroud including:

a body portion defining a first inlet adapted to engage the surface of the workpiece and to surround a location at which said working member penetrates the surface, and including a protruding portion defining a second inlet between said protruding portion and said body portion adjacent thereto, and on a side of said protruding portion remote from said first inlet;

a first outlet adapted to be connected to the suction means;

a third inlet for allowing said working member to pass through said body portion and said first inlet; and

a first sealing means arranged in said third inlet for surrounding said working member and resisting the flow of air through said third inlet;

wherein the suction means is operable to draw air into said body portion via the second inlet, then pull the air past said working member and out of the shroud body portion via the first outlet.

7. A dust extraction apparatus according to claim 6, wherein the dust extraction shroud is adapted to slide relative to said housing in a direction substantially parallel to a working axis of said working member.

8. A dust extraction apparatus according to claim 7, wherein the shroud is connected to said housing by a telescopic arm.

9. A dust extraction apparatus according to claim 8, wherein said telescopic arm is hollow.

10. A dust extraction apparatus according to claim 6, further comprising a filter located in the housing of the dust extraction apparatus.

11. A dust extraction apparatus according to claim 6, further comprising power inlet means for receiving electrical power from the power tool.

12. A dust extraction apparatus according to claim 6, further comprising a timer for deactivating said apparatus a predetermined time after deactivation of the power tool.

13. A power tool comprising:-

a tool housing;

an electric motor provided in the tool housing;

an output shaft adapted to be caused by said motor to actuate a working member of the power tool;

a dust extractor housing;

a suction means provided in the dust extractor housing; and

a dust extraction shroud including:

a body portion defining a first inlet adapted to engage the surface of the workpiece and to surround a location at which said working member penetrates the surface, and including a protruding portion defining a second inlet between said protruding portion and said body portion adjacent thereto, and on a side of said protruding portion remote from said first inlet;

a first outlet adapted to be connected to the suction means;

a third inlet for allowing said working member to pass through said body portion and said first inlet; and

a first sealing means arranged in said third inlet for surrounding said working member and resisting the flow of air through said third inlet;

wherein the suction means is operable to draw air into said body portion via the second inlet, then pull the air past said working member and out of the shroud body portion into the dust extractor body via the first outlet.

14. A power tool according to claim 13, wherein the dust extractor housing is removably mountable to said power tool.

15. A power tool according to claim 13, wherein the power tool is a drill.

16. A power tool according to claim 15, wherein the power tool is a hammer drill.